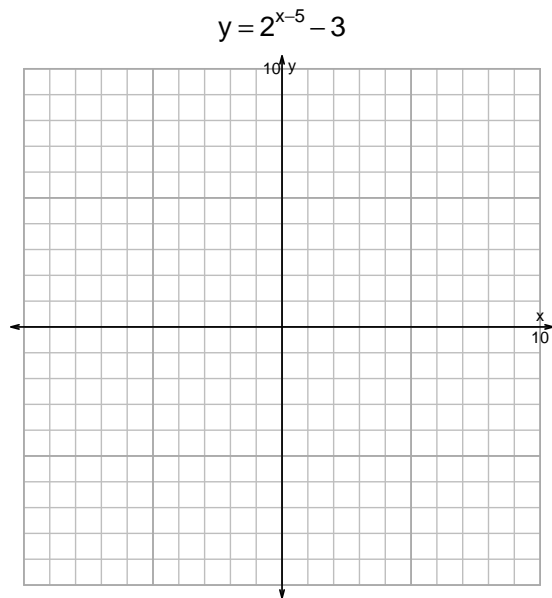
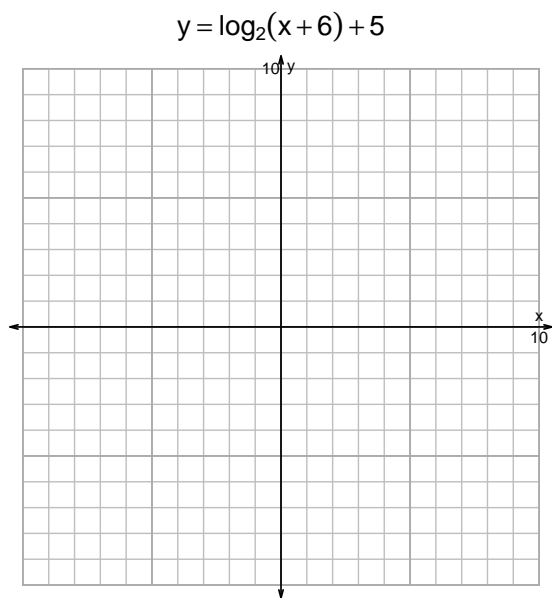


Name: _____

Date: _____

S18QUIZ: EXP LOG (EXAMPLE v9)

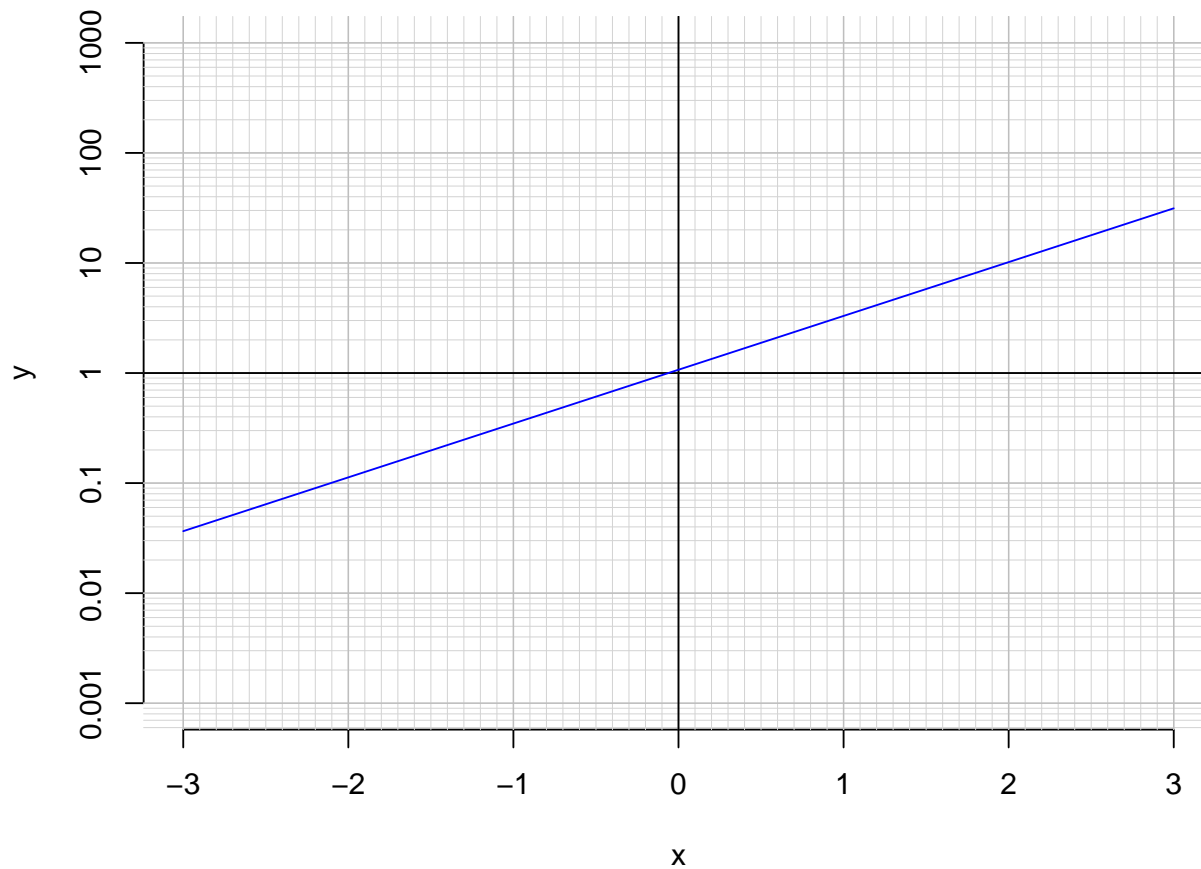
1. Graph $y = \log_2(x + 6) + 5$ and $y = 2^{x-5} - 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$19 = \left(\frac{7}{3}\right) \cdot 10^{4t/5}$$

3. An exponential function $f(x) = 1.07 \cdot e^{1.13x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(2.6)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(0.09)$.